

Detection of early neuron degeneration and accompanying pathway in a rat model of acute intraocular hypertension

Brain Research

1303, 131-143

DOI: [10.1016/j.brainres.2009.09.029](https://doi.org/10.1016/j.brainres.2009.09.029)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Effects of Acutely Elevated Hydrostatic Pressure in a Rat Ex Vivo Retinal Preparation. , 2010, 51, 6414.		27
2	In vitro effect of adenosine A2A receptor antagonist SCH 442416 on the expression of glutamine synthetase and glutamate aspartate transporter in rat retinal MÃÃ/2ller cells at elevated hydrostatic pressure. Oncology Reports, 2011, 27, 748-52.	1.2	14
3	Stereology and Ultrastructure of Chronic Phase Axonal and Cell Soma Pathology in Stretch-Injured Central Nerve Fibers. Journal of Neurotrauma, 2011, 28, 383-400.	1.7	22
4	Assessment of Lateral Geniculate Nucleus Atrophy with 3T MR Imaging and Correlation with Clinical Stage of Glaucoma. American Journal of Neuroradiology, 2011, 32, 1347-1353.	1.2	58
5	Downregulation of apoptosis-inducing factor in Harlequin mice induces progressive and severe optic atrophy which is durably prevented by AAV2-AIF1 gene therapy. Brain, 2012, 135, 35-52.	3.7	34
6	Group I mGluR-Mediated Inhibition of Kir Channels Contributes to Retinal MÃÃ/4ller Cell Gliosis in a Rat Chronic Ocular Hypertension Model. Journal of Neuroscience, 2012, 32, 12744-12755.	1.7	69
7	Critical pathogenic events underlying progression of neurodegeneration inÂglaucoma. Progress in Retinal and Eye Research, 2012, 31, 702-719.	7.3	252
8	Anterograde Degeneration along the Visual Pathway after Optic Nerve Injury. PLoS ONE, 2012, 7, e52061.	1.1	48
9	Effect of A2A receptor antagonist (SCH 442416) on the mRNA expression of glutamate aspartate transporter and glutamine synthetase in rat retinal MÃÃ/4ller cells under hypoxic conditions in vitro. Experimental and Therapeutic Medicine, 2012, 3, 803-806.	0.8	4
10	Degenerative effects in rat eyes after experimental ocular hypertension. European Journal of Histochemistry, 2012, 56, 42.	0.6	5
11	The role of MÃÃ/4ller glia and microglia in glaucoma. Cell and Tissue Research, 2013, 353, 339-345.	1.5	78
12	Neuroglobin involvement in visual pathways through the optic nerve. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1772-1778.	1.1	30
13	Reduced Cerebrovascular Reactivity inÂPosterior Cerebral Arteries in Patients withÂPrimary Open-Angle Glaucoma. Ophthalmology, 2013, 120, 2501-2507.	2.5	17
14	Anatomical and functional damage in experimental glaucoma. Current Opinion in Pharmacology, 2013, 13, 5-11.	1.7	42
15	Failure of axonal transport induces a spatially coincident increase in astrocyte BDNF prior to synapse loss in a central target. Neuroscience, 2013, 229, 55-70.	1.1	66
16	In vivo identification of morphologic retinal abnormalities in neuromyelitis optica. Neurology, 2013, 80, 1406-1414.	1.5	138
17	Abnormalities in Glutamate Metabolism and Excitotoxicity in the Retinal Diseases. Scientifica, 2013, 2013, 1-13.	0.6	89
18	Expression of Inducible Heat Shock Proteins Hsp27 and Hsp70 in the Visual Pathway of Rats Subjected to Various Models of Retinal Ganglion Cell Injury. PLoS ONE, 2014, 9, e114838.	1.1	41

#	ARTICLE	IF	CITATIONS
19	Refined Data Analysis Provides Clinical Evidence for Central Nervous System Control of Chronic Glaucomatous Neurodegeneration. <i>Translational Vision Science and Technology</i> , 2014, 3, 1.	1.1	41
20	Tumor necrosis factor alpha has an early protective effect on retinal ganglion cells after optic nerve crush. <i>Journal of Neuroinflammation</i> , 2014, 11, 194.	3.1	49
21	Autoregulation of Retinal Blood Flow in Response to Decreased Ocular Perfusion Pressure in Cats: Comparison of the Effects of Increased Intraocular Pressure and Systemic Hypotension. , 2014, 55, 360.		43
22	Impaired Saccadic Eye Movement in Primary Open-angle Glaucoma. <i>Journal of Glaucoma</i> , 2014, 23, 23-32.	0.8	44
23	Transplantation with retinal progenitor cells repairs visual function in rats with retinal ischemiaâ€“reperfusion injury. <i>Neuroscience Letters</i> , 2014, 558, 8-13.	1.0	11
24	Optic pathway degeneration in Japanese black cattle. <i>Journal of Veterinary Medical Science</i> , 2015, 77, 147-154.	0.3	0
25	Central Visual Pathways in Glaucoma. <i>Journal of Neuro-Ophthalmology</i> , 2015, 35, S29-S37.	0.4	26
26	Chronic Ocular Hypertension Induced by Circumlimbal Suture in Rats. , 2015, 56, 2811.		36
27	Retinotopic Changes in the Gray Matter Volume and Cerebral Blood Flow in the Primary Visual Cortex of Patients With Primary Open-Angle Glaucoma. , 2015, 56, 6171.		27
28	First Responders: Dynamics of Pre-Gliotic MÃ¼ller Cell Responses in The Isolated Adult Rat Retina. <i>Current Eye Research</i> , 2015, 40, 1245-1260.	0.7	13
29	Ocular Hypertension Results in Retinotopic Alterations in the Visual Cortex of Adult Mice. <i>Current Eye Research</i> , 2015, 40, 1269-1283.	0.7	19
30	Psychophysical testing in rodent models of glaucomatous optic neuropathy. <i>Experimental Eye Research</i> , 2015, 141, 154-163.	1.2	19
31	Insight into astrocyte activation after optic nerve injury. <i>Journal of Neuroscience Research</i> , 2015, 93, 539-548.	1.3	10
32	Melanopsin-Containing or Non-Melanopsinâ€“Containing Retinal Ganglion Cells Response to Acute Ocular Hypertension With or Without Brain-Derived Neurotrophic Factor Neuroprotection. , 2016, 57, 6652.		34
33	Optic Radiations Microstructural Changes in Glaucoma and Association With Severity: A Study Using 3Tesla-Magnetic Resonance Diffusion Tensor Imaging. , 2016, 57, 6539.		22
34	Activated MÃ¼ller Cells Involved in ATP-Induced Upregulation of P2X ₇ Receptor Expression and Retinal Ganglion Cell Death. <i>BioMed Research International</i> , 2016, 2016, 1-9.	0.9	8
35	Retinal Macrogial Responses in Health and Disease. <i>BioMed Research International</i> , 2016, 2016, 1-13.	0.9	133
36	Increased Expression of Osteopontin in Retinal Degeneration Induced by Blue Light-Emitting Diode Exposure in Mice. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 58.	1.4	21

#	ARTICLE	IF	CITATIONS
37	Thalamic Visual Prosthesis. IEEE Transactions on Biomedical Engineering, 2016, 63, 1573-1580.	2.5	23
38	Magnetization transfer imaging reveals geniculocalcarine and striate area degeneration in primary glaucoma: a preliminary study. Acta Radiologica Open, 2016, 5, 205846011666687.	0.3	3
39	Retinal Structures and Visual Cortex Activity are Impaired Prior to Clinical Vision Loss in Glaucoma. Scientific Reports, 2016, 6, 31464.	1.6	80
40	Retinal glial responses to optic nerve crush are attenuated in Bax-deficient mice and modulated by purinergic signaling pathways. Journal of Neuroinflammation, 2016, 13, 93.	3.1	60
41	Bilateral neuroinflammatory processes in visual pathways induced by unilateral ocular hypertension in the rat. Journal of Neuroinflammation, 2016, 13, 44.	3.1	51
42	Involvement of the MEK-ERK/p38-CREB/c-fos signaling pathway in Kir channel inhibition-induced rat retinal M μ ller cell gliosis. Scientific Reports, 2017, 7, 1480.	1.6	23
43	A novel RIPK1 inhibitor that prevents retinal degeneration in a rat glaucoma model. Experimental Cell Research, 2017, 359, 30-38.	1.2	37
44	MicroRNA regulation in an animal model of acute ocular hypertension. Acta Ophthalmologica, 2017, 95, e10-e21.	0.6	28
45	Integrated microarray analysis provided novel insights to the pathogenesis of glaucoma. Molecular Medicine Reports, 2017, 16, 8735-8746.	1.1	9
46	Disrupted Eye Movements in Preperimetric Primary Open-Angle Glaucoma. , 2017, 58, 2430.		24
47	Microglial μ -induced M μ ller cell gliosis is attenuated by progesterone in a mouse model of retinitis pigmentosa. Glia, 2018, 66, 295-310.	2.5	52
48	Thinner retinal layers are associated with changes in the visual pathway: A population μ -based study. Human Brain Mapping, 2018, 39, 4290-4301.	1.9	25
49	Selective Early Glial Reactivity in the Visual Pathway Precedes Axonal Loss, Following Short-Term Cerebrospinal Fluid Pressure Reduction. , 2018, 59, 3394.		6
50	Optic tract injury after closed head traumatic brain injury in mice: A model of indirect traumatic optic neuropathy. PLoS ONE, 2018, 13, e0197346.	1.1	45
51	Early-Stage Ocular Hypertension Alters Retinal Ganglion Cell Synaptic Transmission in the Visual Thalamus. Frontiers in Cellular Neuroscience, 2019, 13, 426.	1.8	21
52	Primary Open-Angle Glaucoma, Trans-Lamina Cribrosa Pressure Difference, and Central Nerve System. Advances in Visual Science and Eye Diseases, 2019, , 25-32.	0.1	0
53	Anatomy and Physiology of optic nerve head. Advances in Visual Science and Eye Diseases, 2019, , 47-53.	0.1	0
54	Intraocular and Intracranial Pressure Gradient in Glaucoma. Advances in Visual Science and Eye Diseases, 2019, , .	0.1	4

#	ARTICLE	IF	CITATIONS
55	Ocular Fluid Dynamics. Modeling and Simulation in Science, Engineering and Technology, 2019, , .	0.4	9
56	Change in phospholipid species of retinal layer in traumatic optic neuropathy model. Journal of Neuroscience Research, 2020, 98, 325-337.	1.3	5
57	Integrative Ophthalmology. Advances in Visual Science and Eye Diseases, 2020, , .	0.1	2
58	Inflammation in Glaucoma: From the back to the front of the eye, and beyond. Progress in Retinal and Eye Research, 2021, 83, 100916.	7.3	183
59	Glaucoma: A Degenerative Optic Neuropathy Related to Neuroinflammation?. Cells, 2020, 9, 535.	1.8	59
61	Protective effect of Acer palmatum Thunb. leaf extract on mice with steroid-induced ocular hypertension. Molecular and Cellular Toxicology, 2022, 18, 71-79.	0.8	1
62	Mechanisms implicated in the contralateral effect in the central nervous system after unilateral injury: focus on the visual system. Neural Regeneration Research, 2021, 16, 2125.	1.6	15
63	Trabecular Meshwork Gene Expression after Selective Laser Trabeculoplasty. PLoS ONE, 2011, 6, e20110.	1.1	38
64	Proton Magnetic Resonance Spectroscopy (1H-MRS) Reveals Geniculocalcarine and Striate Area Degeneration in Primary Glaucoma. PLoS ONE, 2013, 8, e73197.	1.1	27
65	Lin28B promotes Müller glial cell de-differentiation and proliferation in the regenerative rat retinas. Oncotarget, 2016, 7, 49368-49383.	0.8	13
66	Efficacy and Safety of Switching Latanoprost Monotherapy to Bimatoprost Monotherapy or Combination of Brinzolamide and Latanoprost. Open Ophthalmology Journal, 2016, 10, 94-102.	0.1	1
67	Functional magnetic resonance imaging evaluation of visual cortex activation in patients with anterior visual pathway lesions. Neural Regeneration Research, 2012, 7, 692-6.	1.6	7
68	Stressor-dependent Alterations in Glycoprotein 130: Implications for Glial Cell Reactivity, Cytokine Signaling and Ganglion Cell Health in Glaucoma. Journal of Clinical & Experimental Ophthalmology, 2013, 04, .	0.1	16
69	Interaction Between RGC Bodies and Glia. , 2014, , 143-160.		0
70	Optic neuropathy and increased retinal glial fibrillary acidic protein due to microbead-induced ocular hypertension in the rabbit. International Journal of Ophthalmology, 2016, 9, 1732-1739.	0.5	6
73	Glaucomatous Injury of Central Nerve System. Advances in Visual Science and Eye Diseases, 2020, , 41-43.	0.1	0
74	Understanding Primary Open-Angle Glaucoma from the Perspective Beyond Ophthalmology. Advances in Visual Science and Eye Diseases, 2020, , 17-24.	0.1	0
75	Glaucomatous Injury of Central Nerve System: The Role of Neuroimaging Technology in the Understanding of Disease. Advances in Visual Science and Eye Diseases, 2020, , 45-49.	0.1	0

#	ARTICLE	IF	CITATIONS
76	Lycium barbarum polysaccharides related RAGE and A β levels in the retina of mice with acute ocular hypertension and promote maintenance of blood retinal barrier. <i>Neural Regeneration Research</i> , 2020, 15, 2344.	1.6	11
77	Assessment of Cerebral Vasomotor Reactivity in Patients With Primary Open-angle Glaucoma and Ocular Hypertension Using the Breath-Holding Index. <i>Journal of Glaucoma</i> , 2021, 30, 157-163.	0.8	4
78	Retinal whole genome microarray analysis and early morphological changes in the optic nerves of monkeys after an intraorbital nerve irradiated injury. <i>Molecular Vision</i> , 2011, 17, 2920-33.	1.1	4
80	Minocycline inhibits the production of the precursor form of nerve growth factor by retinal microglial cells. <i>Neural Regeneration Research</i> , 2013, 8, 320-7.	1.6	3
81	Influences of Glaucoma on the Structure and Function of Synapses in the Visual System. <i>Antioxidants and Redox Signaling</i> , 2022, 37, 842-861.	2.5	1
83	DNA damage and repair in the visual center in the rhesus monkey model of glaucoma. <i>Experimental Eye Research</i> , 2022, 219, 109031.	1.2	5
85	Neuromyelitis Optica Spectrum Disorder: From Basic Research to Clinical Perspectives. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7908.	1.8	6
86	Anti- β -Amyloid is involved in neuroprotective effects of melatonin in acute ocular hypertension model. <i>Journal of Pineal Research</i> , 2022, 73, .	3.4	23
87	Eye Movement Abnormalities in Glaucoma Patients: A Review. <i>Eye and Brain</i> , 0, Volume 14, 83-114.	3.8	4
88	Impairments of retinal hemodynamics and oxygen metrics in ocular hypertension-induced ischemia-reperfusion. <i>Experimental Eye Research</i> , 2022, 225, 109278.	1.2	4
89	Morphological Changes of Glial Lamina Cribrosa of Rats Suffering from Chronic High Intraocular Pressure. <i>Bioengineering</i> , 2022, 9, 741.	1.6	0
90	Decreased macular deep capillary plexus is associated with functional progression of normal tension glaucoma patients with unilateral visual field loss. <i>British Journal of Ophthalmology</i> , 2024, 108, 188-194.	2.1	2
91	Activation of retinal glial cells contributes to the degeneration of ganglion cells in experimental glaucoma. <i>Progress in Retinal and Eye Research</i> , 2023, 93, 101169.	7.3	16
92	Beneficial and Detrimental Pressure-Related Effects on Inner Neurons in the Adult Porcine In Vitro Retina. <i>Translational Vision Science and Technology</i> , 2023, 12, 19.	1.1	1
93	Leuprolide Acetate, a GnRH Agonist, Holds Up Neurodegeneration in an Experimental Glaucoma Model. <i>Ciencia Y Tecnología Para La Salud Visual Y Ocular</i> , 2022, 20, .	0.1	0